

-108-

We Claim:

1. A method of detecting the presence of a target CS198 polynucleotide
5 in a test sample, comprising:
 - (a) contacting said test sample with at least one CS198-specific polynucleotide or complement thereof; and
 - (b) detecting the presence of said target CS198 polynucleotide in the test sample, wherein said CS198-specific polynucleotide has at least 50% identity to a
10 polynucleotide selected from the group consisting of SEQUENCE ID NOS 1-27, and fragments or complements thereof.
2. The method of claim 1, wherein said target CS198 polynucleotide is attached to a solid phase prior to performing step (a).
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3. A method for detecting mRNA of CS198 in a test sample, comprising:
 - (a) performing reverse transcription with at least one primer in order to produce cDNA;
 - 20 (b) amplifying the cDNA obtained from step (a) using CS198 oligonucleotides as sense and antisense primers to obtain CS198 amplicon; and
 - (c) detecting the presence of said CS198 amplicon in the test sample, wherein the CS198 oligonucleotides utilized in steps (a) and (b) have at least 50% identity to a polynucleotide selected from the group consisting of SEQUENCE ID
25 NOS 1-27, and fragments or complements thereof.
4. The method of claim 3, wherein said test sample is reacted with a solid phase prior to performing one of steps (a), (b), or (c).
- 30 5. The method of claim 3, wherein said detection step comprises utilizing a detectable label capable of generating a measurable signal.
6. A method of detecting a target CS198 polynucleotide in a test sample suspected of containing said target, comprising:

-109-

(a) contacting said test sample with at least one CS198 oligonucleotide as a sense primer and with at least one CS198 oligonucleotide as an anti-sense primer and amplifying to obtain a first stage reaction product;

5 (b) contacting said first stage reaction product with at least one other CS198 oligonucleotide to obtain a second stage reaction product, with the proviso that the other CS198 oligonucleotide is located 3' to the CS198 oligonucleotides utilized in step (a) and is complementary to said first stage reaction product; and

10 (c) detecting said second stage reaction product as an indication of the presence of the target CS198 polynucleotide, wherein the CS198 oligonucleotides utilized in steps (a) and (b) have at least 50% identity to a polynucleotide selected from the group consisting of SEQUENCE ID NOS 1-27, and fragments or complements thereof.

15 7. The method of claim 6, wherein said test sample is reacted with a solid phase prior to performing one of steps (a), (b), or (c).

8. The method of claim 6, wherein said detection step comprises utilizing a detectable label capable of generating a measurable signal.

20 9. The method of claim 8, wherein said detectable label is reacted to a solid phase.

25 10. A test kit useful for detecting CS198 polynucleotide in a test sample, comprising a container containing at least one CS198 polynucleotide having at least 50% identity with a sequence selected from the group consisting of SEQUENCE ID NOS 1-27, and fragments or complements thereof.

30 11. A purified polynucleotide or fragment thereof derived from a CS198 gene, wherein said polynucleotide is capable of selectively hybridizing to the nucleic acid of said CS198 gene and has at least 50% identity with a polynucleotide selected from the group consisting of (a) SEQUENCE ID NOS 7-13 and complements thereof, (b) SEQUENCE ID NOS 15-26 and complements thereof, and (c) fragments of SEQUENCE ID NOS 7-26.

-110-

12. The purified polynucleotide of claim 11, wherein said polynucleotide is produced by recombinant techniques.

13. The purified polynucleotide of claim 11, wherein said polynucleotide
5 is produced by synthetic techniques.

14. The purified polynucleotide of claim 11, wherein said polynucleotide comprises a sequence encoding at least one CS198 epitope.

15. A recombinant expression system comprising a nucleic acid sequence that includes an open reading frame derived from CS198 operably linked to a control sequence compatible with a desired host, wherein said nucleic acid sequence has at least 50% identity to a polynucleotide selected from the group consisting of
10 SEQUENCE ID NOS 1-27, and fragments or complements thereof.

16. A cell transfected with the recombinant expression system of claim
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17. A CS198 polypeptide having at least 50% identity with an amino acid
20 sequence selected from the group consisting of (a) SEQUENCE ID NOS 43-47, and (b) fragments of SEQUENCE ID NOS 42-47

18. The polypeptide of claim 17, wherein said polypeptide is produced by recombinant techniques.

19. The polypeptide of claim 17, wherein said polypeptide is produced by synthetic techniques.

20. An antibody which specifically binds to at least one CS198 epitope, wherein said CS198 epitope is derived from an amino acid sequence having at least 50% identity with an amino acid sequence selected from the group consisting of
30 SEQUENCE ID NOS 42-47, and fragments thereof.

-111-

21. An assay kit for determining the presence of CS198 antigen or anti-CS198 antibody in a test sample, comprising a container containing a CS198 polypeptide having at least 50% identity with an amino acid sequence selected from the group consisting of SEQUENCE ID NOS 42-47, and fragments thereof.

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22. The assay kit of claim 21, wherein said polypeptide is attached to a solid phase.

23. An assay kit for determining the presence of CS198 antigen in a test sample, comprising a container containing an antibody which specifically binds to a CS198 antigen which comprises at least one CS198 epitope.

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24. The kit of claim 23, wherein said antibody is attached to a solid phase.

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25. A method for producing a polypeptide comprising at least one CS198 epitope, said method comprising incubating host cells that have been transfected with an expression vector containing a polynucleotide sequence encoding a polypeptide, wherein said polypeptide comprises an amino acid sequence having at least 50% identity with an amino acid sequence selected from the group consisting of SEQUENCE ID NOS 42-47, and fragments thereof.

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26. A method for detecting CS198 antigen in a test sample suspected of containing said CS198 antigen, comprising:

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(a) contacting the test sample with an antibody or fragment thereof which specifically binds to at least one epitope of a CS198 antigen selected from the group consisting of SEQUENCE ID NOS 42-47, and fragments thereof, wherein said contacting is carried out for a time and under conditions sufficient for the formation of antibody/antigen complexes; and

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(b) detecting said complexes.

27. The method of claim 26, wherein said antibody is attached to a solid phase.

-112-

28. A method for detecting the presence of antibodies specific for a CS198 antigen in a test sample suspected of containing such antibodies, said method comprising:

- (a) contacting the test sample with a CS198 polypeptide, wherein said
5 CS198 polypeptide contains at least one CS198 epitope derived from an amino acid sequence or fragment thereof having at least 50% identity with an amino acid sequence selected from the group consisting of SEQUENCE ID NOS 42-47, and fragments thereof, and further wherein said contacting is carried out for a time and under conditions sufficient to allow antigen/antibody complexes to form; and
10 (b) detecting said complexes.

29. The method of claim 28, wherein said CS198 polypeptide is attached to a solid phase.

- 15 30. A cell transfected with a nucleic acid sequence encoding at least one CS198 epitope, wherein said nucleic acid sequence is selected from the group consisting of SEQUENCE ID NOS 1-27, and fragments or complements thereof.

- 20 31. A method for producing antibodies which specifically bind to CS198 antigen, comprising administering to an individual an isolated immunogenic polypeptide or fragment thereof in an amount sufficient to elicit an immune response, wherein said immunogenic polypeptide comprises at least one CS198 epitope and has at least 50% identity with an amino acid sequence selected from the group consisting of SEQUENCE ID NOS 42-47, and fragments thereof.

- 25 32. A method for producing antibodies which specifically bind to CS198 antigen, comprising administering to an individual a plasmid comprising a sequence which encodes at least one CS198 epitope derived from a polypeptide having an amino acid sequence selected from the group consisting of SEQUENCE ID NOS
30 42-47, and fragments thereof.

33. A composition of matter comprising a CS198 polynucleotide or fragment thereof, wherein said polynucleotide has at least 50% identity with a polynucleotide selected from the group consisting of (a) SEQUENCE ID NOS 7-13

-113-

and complements thereof, (b) SEQUENCE ID NOS 15-26 and complements thereof, and (c) fragments of SEQUENCE ID NOS 7-26.

34. A composition of matter comprising a polypeptide containing at least
5 one CS198 epitope, wherein said polypeptide has at least 50% identity with a
sequence selected from the group consisting of (a) SEQUENCE ID NOS 43-47, and
(b) fragments of SEQUENCE ID NOS 42-47.

35. The test kit of claim 10 further comprising a container with tools
10 useful for collection of said sample, wherein the tools are selected from the group
consisting of lancets, absorbent paper, cloth, swabs and cups.

36. The assay kit of claim 21 further comprising a container with tools
15 useful for collection of said sample, wherein the tools are selected from the group
consisting of lancets, absorbent paper, cloth, swabs and cups.

37. The test kit of claim 23 further comprising a container with tools
useful for collection of said sample, wherein the tools are selected from the group
consisting of lancets, absorbent paper, cloth, swabs and cups.

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38. A gene, or a fragment thereof, which codes for a CS198 protein
which comprises an amino acid sequence having at least 50% identity with
SEQUENCE ID NO 47.

25 39. A gene, or a fragment thereof, comprising DNA having at least 50%
identity with SEQUENCE ID NO 26.